Week-05-01-Practice SessionCoding: Attempt review | REC-CIS

3–4 minutes

Question 1

Correct

Marked out of 3.00

Question text

Write a program that prints a simple chessboard.

Input format:

The first line contains the number of inputs T.

The lines after that contain a different values for size of the

chessboard Output format:

Print a chessboard of dimensions size * size. Print a Print W for

white spaces and B for black spaces.

Input:

2

3

5

Output:

WBW

BWB

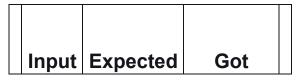WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer:(penalty   regime: 0 %)

```c
1   #include<stdio.h>
2   int main(){
3       int t;
4       scanf("%d",&t);
5       int a[t];
6       for(int i=0;i<t;i++){
7           scanf("%d",&a[i]);
8       }
9       for(int i=0;i<t;i++){
10          for(int j=1;j<=a[i];j++){
11              int temp;
12              char *ch[]={"W","B"};
13              temp=j%2;
14              for(int k=1;k<=a[i];k++){
15                  if(temp==1){
16                      printf("%s",ch[0]);
17                  }
18                  else{
19                      printf("%s",ch[1]);
20                  }temp++;
21                  temp=temp%2;
22              }printf("\n");
23          }
24      }
25  }
```

Feedback

Input	Expected	Got

2	WBW	WBW
3	BWB	BWB
5	WBW	WBW
	WBWBW	WBWBW
	BWBWB	BWBWB
	WBWBW	WBWBW
	BWBWB	BWBWB
	WBWBW	WBWBW

Passed all tests!

Question 2 Correct

Marked out of 5.00

Question text

Let's print a chessboard!

Write a program that takes input:

The first line contains T, the number of test cases

Each test case contains an integer N and also the starting character of the chessboard

Output Format

Print the chessboard as per the given examples

Sample Input / Output Input:

2

2 W

3 B

Output:

WB

BW

BWB WBW

BWB

Answer:(penalty | regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    int a[t];char ch[t+1][1];
    for(int i=0;i<t;i++){
        scanf("%d %c",&a[i],&ch[i][0]);
    }
    for(int i=0;i<t;i++){
        for(int j=1;j<=a[i];j++){
            int temp;
            if(ch[i][0]=='W'){
                temp=1;
            }else{
                temp=0;
            }temp+=j;
            temp%=2;
            for(int k=1;k<=a[i];k++){
                if(temp==1){
                    printf("B");
                }else{
                    printf("W");
                }temp++;
                temp%=2;
            }printf("\n");
        }
    }
}
```

Feedback

Input	Expected	Got

2	WB	WB
2 W	BW	BW
3 B	BWB	BWB
	WBW	WBW
	BWB	BWB

Passed all tests!

Question 3

Correct

Marked out of 7.00

Question text

Decode the logic and print the Pattern that corresponds to given

input. If N= 3

then pattern will be :

10203010011012

**4050809

****607

If N= 4, then pattern will be:

1020304017018019020

**50607014015016

****809012013

******10011

Constraints

2 <= N <= 100

Input Format

First line contains T, the number of test cases

Each test case contains a single integer N

Output

First line print Case #i where i is the test case number

In the subsequent line, print the pattern

Test Case 1

3

3

4

5

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

Case #3

10203040502602702 8029030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer:(penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    int n[t];
    for(int i=0;i<t;i++){
        scanf("%d",&n[i]);
    }
    for(int i=0;i<t;i++){
        printf("Case #%d\n",i+1);
        int n1=n[i],sq,i1=1;
        for(int i5=1;i5<=n1;i5++){
            printf("%d",i5*10);
            i1++;
        }sq=n1*n1;
        for(int i5=1;i5<=n1;i5++){
            if(i5==n1)
            printf("%d",sq+i5);
            else
            printf("%d",(sq+i5)*10);

        }printf("\n");
        sq-=(n1-1);
        for(int i5=1;i5<n1;i5++){
            for(int j=1;j<=i5;j++){
                printf("**");
            }
            for(int k=1;k<=n1-i5;k++){
                printf("%d",i1*10);
                i1++;
            }
            for(int k=1;k<=n1-i5;k++){
                if(k!=(n1-i5))
                printf("%d",(sq+k)*10);
                else
                printf("%d",(sq+k));
            }sq=sq+1-(n1-i5);
            printf("\n");
        }

    }
}
```

Feedback

Input	Expected	Got
3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802 9030 **6070809022023024025 ****10011012019020021 ******13014017018	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802 9030 **6070809022023024025 ****10011012019020021 ******13014017018

Input	Expected	Got
	********15016	********15016

Passed all tests!

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of 10